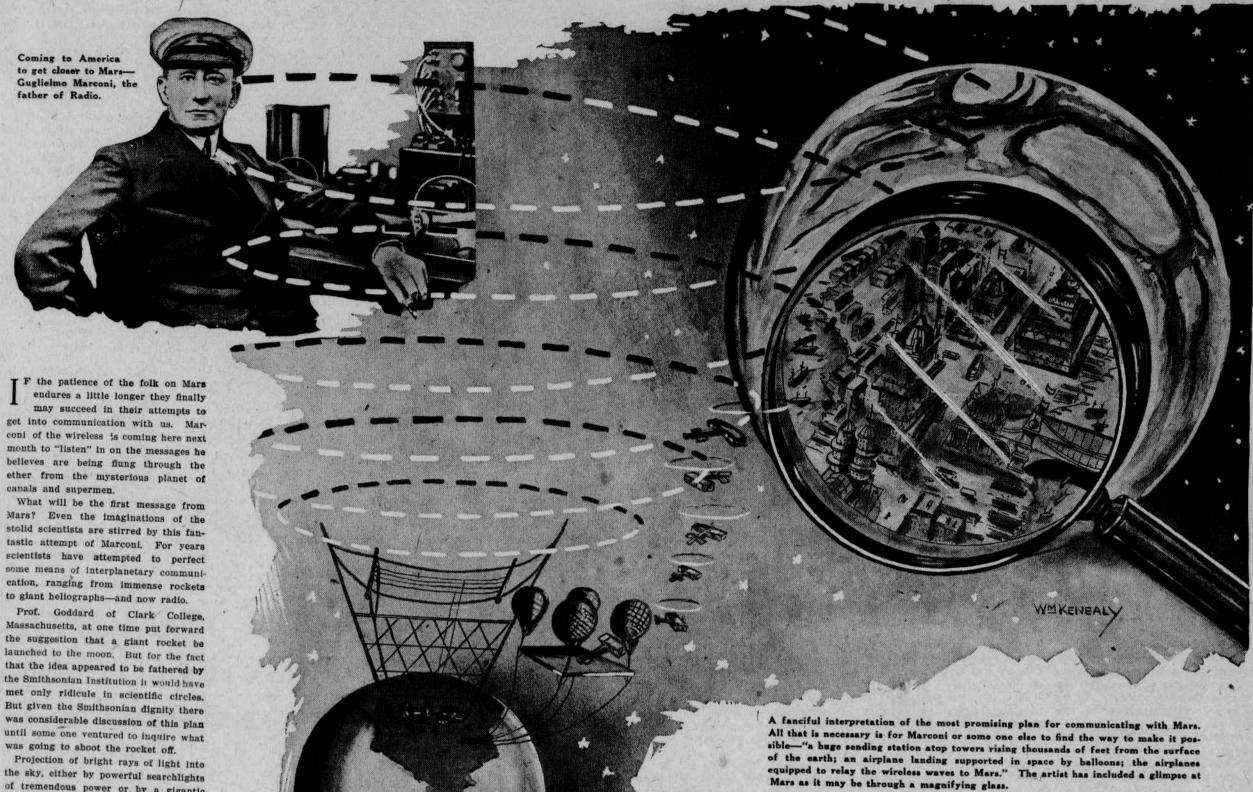
## Will Marconi Succeed in his "Listening In" on Mars



the sky, either by powerful searchlights of tremendous power or by a gigantic heliograph system of mirrors placed in some such locality as the Sahara Desert, at one time appealed to science as the most feasible way to establish communications with Mars. Early in 1920 Preston B. Bassett, research engineer of the Sperry Gyroscope Company of Brooklyn, asserted that there was no reason such a method should not be entirely feasible.

Mr. Bassett, one of many who backed the light system of communication with he other planets, proposed the concentration of the rays of 120 high intensity searchlights of 1,000,000,000 candle-power each into a single beam of 120,000,000,000 candle-power intensity, which would rebe easily read on Mars, provided that found subject, planet was inhabited and that the inhabi-

proved impracticable even before given a which are not merely stray signals." test. Radio seems to hold out the most etary communication.

stations, of which the most important stellar spaces. was the London station, were staftled by

less stations the world over ic an attempt country would have to be concentrated wireless telegraphy and wireless im-

hope. Radio, Marconi reminds, gave sci- communication-even in the minds of earth, and about four minutes and twen- here. ence our first real hope of interplan- those most skeptical of the source of the ty-two seconds when the planet is nearest. Probably the most serious difficulty, operators in several different wireless tric waves across the limitless inter- David Todd, former head of the

a series of "mysterious" messages of ex- ing wizard of the General Electric Com- Neb., where a powerful receiving sta-The operators wondered, unable to ex- wireless plant powerful enough to cast a tion with the planet. A specially conplain these strange signals. Finally it wave length capable of reaching Mars structed balloon, piloted by one of the was observed that they were receiving a would cost \$1,000,000,000 to construct and greatest balloon experts in the world, series of S's. The "toc-toc" was in require from the whole country the same Capt. Leo Stevens; all the facilities of reality three dots, which in Morse code degree of energy and thoroughness with the War Department's chief balloon represents the letter S. Each message which it entered the war. Lofty towers, school, experts from the Rockefeller In-Later a query was broadcasted to wire- structed and all the electric power of the University, the very latest inventions in "Could it be Mars?" a startled world eral thousand feet could be used instead tians were trying to communicate with asked itself. And in answer a contro- of the 1,000 feet high towers, which the people of the earth. The venture

posing it with explanations of "atmos- resultant wave length would be beyond all the reddish hued planet. pheric discharges," "magnetic storms," previous conjecture. Wave lengths of Prof. Todd is now supervising the with a round grayish body, with a "sort down column after column and probing large spider's web, which had bound the "thunder storms on the sun" and other 5,000 miles, while not common, are often scientific work connected with the build- of a face" and long, groping tentacles—a its bill into every crevice, and he actually wing and tail together in such a manner cast and signals have been sent as far as ing of a giant telescope to be erected in Marconi at the time said: "I would be 10,000 miles under unusual circum- a mine shaft in Chile. The shaft is to will he be, as Edmond Perrier, director of One morning, however, as an official some old, wise spider had resented the a bold speculator were I to destare posi- stances. However, there are a great be sixty feet in diameter, and a magni- the Museum of the Jardine des Plantes of the museum was passing, an attendant bird's work of extermination and had tively that one or more of the planets many atmospheric conditions still to be fication of 25,000,000 times theoretically and constructor of the first picture of the remarked to him that it looked very much purposely ensuared him in a trap. are attempting to send us some kind of contended with, even when sending a will be obtained. This will bring Mars Martian, describes him? The French as if the bird were done for, and a sub-

sult in a signal which, he claimed, could our incomplete knowledge of such a pro- wireless plant induces is fascinating. a long way to go before we develop a wave could not engender life. Only Venus, the scopes are things of a bygone past, pre-

"What actually has happened in this only 35,000,000 miles away; at other 250,000,000 miles gap. tants possessed telescopic instruments of throbbing mystery is that signals have times 250,000,000. If a message were But now comes Signor Marconi to the been received which apparently are due flashed to Mars-electricity travels 186,000 United States, where radio has developed pulmonary apparatus, and consequently "Certainly what we see hints at the ex-But all methods suggested have been to electro-magnetic waves of great length miles a second—it would reach its desti- in leaps and bounds during the last year Interest was revived in interplanetary if Mars were at its farthest point from far flung messages from Mars it will be

> lightning, at the time estimated that a the Government to get into communica-1,000 feet high, would have to be con- stitute, apparatus from Johns Hopkins filled with helium gas and sent up sev- putting to test the belief that the Mar- indeed, fearful to contemplate.

true, and the spot would be moving said: surance that it favorable conditions.

But the speculation tablished between the two planets Mars found in the alkaline wastes of Jupiter, ventions of which we have not dreamed, that the thought of such a will have to take the initiative. We have while Mercury, which is too near the Sun, and with them electrophones and kineto-Mars when nearest to the earth is length that will jump the 35,000,000 to

nation in a little over twenty-two minutes or so. If he is to succeed in catching the been influenced by this development, not behind us in the journey of life."

mysterious messages. Efforts were made During the April following the re- aside from the engineering features of One night in January, 1920 Marconi to find the most feasible way to cast elec- ceipt of the mysterious messages Prof. the strange groping through space of two planets, is the lack of a common medium astronomical department of Amherst, for the exchange of thought. However, Dr. Charles P. Steinmetz, the engineer- made several serious attempts at Omaha, if the Martians can generate a wave length to reach from their planet to ours. traordinary wave length which they could pany and recent inventor of "synthetic" tion was built under the supervision of it is possible that they will be of such super-mentality that they will easily overcome this drawback.

Again the question, "What will be the first message from Mars?" injects itself. THE Field Museum in Chicago once tendant the officer saw that the bird lay What will it reveal?

Will it plunge our earth back a thou-

versy arose with one side defending the might prove cumbersome to construct. met with virtually no success as regards tion? Will he be, as H. G. Wells describes pests. Mars theory and the other bitterly op- If such a station should be built, the communciation with the inhabitants of him in his book "War of the Worlds," a For several days the bird flitted about Then, turning the bird over in his hand, gruesome, hideous thing to look upon? Or carried on a very effective work. that such a thing is possible, in view of wave length sufficiently powerful enough earth—that is optically—so that any life tain resemblance to man, although many ing in the direction indicated by the at-

the planet would thus be observed, it is in gravity and environment. He has human intelligence."

could probably be observed to insure animates the other planets. From what that is all the name implies. some positive conclusions. In 1924 goes on around us we may divine what Prof. Lowell, director of the observa-Mars was Mars will be within 35,000,000 miles of is happening elsewhere by examining contory at Flagstaff, Ariz., and one of the created there the earth, so that observations made at ditions under which each planet finds it- greatest authorities on Mars, places the would be no as- that time would be under the most self en rapport with every other. On the Martian people on a much higher intellecplanets which are farthest away it is im- tual plane than those on earth. Judging from past performances, it ap- possible that human beings should exist, "Quite possibly," Prof. Lowell has writpears that if communication is to be es. for no organism could, for example, be ten, "the Martian folk are possessed of in-

> duced considerable development of the of the simple childhood of the race. which is unknown on earth.

or activity upon its surface would be of the physical features are more promi- of beauty which we doubtless would not readily observable. Only a small part of nent. He ascribes this to the differences appreciate except as suggesting super-

He has further stated that the Martians rapidly past the telescope, but enough "The life which animates the earth also live in an intellectual Utopia-a Utopia

"The low atmospheric pressure has pro- seums as relics of the clumsy contrivances

the general character of the Martians has istence of beings who are in advance of

The canal system of Mars indicates that "The men on Mars are tall because the the planet's inhabitants are a race of force of gravity is slight. They are blond super-engineers. If they outshine us menbecause the daylight is less intense. They tally as much as Prof. Lowell claims, we have less powerful limbs. They have can expect to find that our "modern" and some of the characteristics of our Scandi- much boasted of buildings are as the navian type, although very probably have tepees of the Sioux, our engineering works no further advanced than the "Their large blue eyes, their strong dams of the beaver, our inventions as noses, their large ears constitute a type simple as children's toys.

## The Spider's Novel Bird Trap

number of obnoxious spiders. of the columns. sand years? Will it make our radio, tele- They festooned the ceiling and great col- "Catch a fly," said the scientist to his phonic and telegraphic systems seem, by umns of the building with yards of their attendant, as he took the bird into his comparison with those of Mars, to be as shuttle work. Scrubwomen and janitors hands. The fly soon being forthcoming, crude as the smoke signals of the Indian tried in vain to rid the building of the it was held on the point of a pin to the to find the source of the phantom signals, into one great power plant or sending pulses and specially built instruments of or the tomtom wireless of the African pests and their work. Finally a small bird's beak, and to the surprise of both It was found the messages were of no station. He also said that metal balloons various kinds assisted Prof. Todd in bushman? Such questions as these are, bird, known as the brown creeper, dis-men the creeper bit at it voraciously. covered the state of things and decided That didn't look as if the little fellow And how about the Martian himself- to take up its abode inside and assist the were about to die. The scientist was the subject of so much earthly specula- authorities in ridding the building of the much perplexed and wondered what was

became infested with a large panting on its side at the bottom of one

cross between a cuttlefish and a monkey, very much as it pleased, wagging up and he found it had been entrapped in a as to preclude flying. It looked as if

messages, but it is equally futile to deny message a short distance, and even if a within about a mile and a half of the scholar held that the Martian bears a cer- ject for the museum's collection. Glanc- the bird darted out of the building and